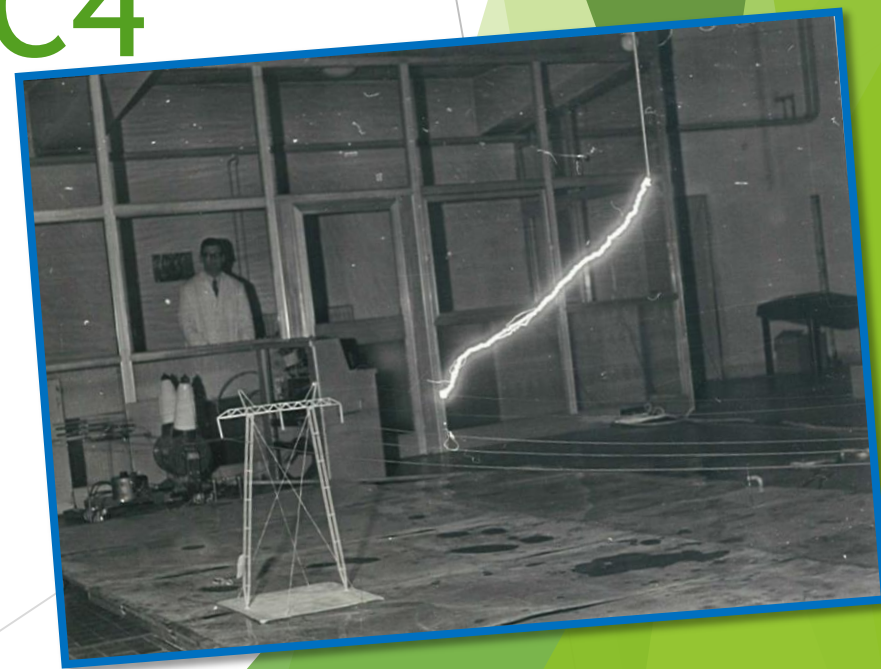




CIGRÉ Study Committee C4

Proposal for next
International Colloquium



Previous CIGRÉ C4 International Colloquiums on ...

- ▶ Application of Line Surge Arresters in Power Distribution and Transmission Systems (2008 - Cavtat, Croatia)
- ▶ Lightning and Power Systems (2010 - Kuala Lumpur, Malaysia)
- ▶ Power Quality and Lightning (2012 - Sarajevo, Bosnia and Herzegovina)
- ▶ Lightning & Power Systems (2014 - Lyon, France)
- ▶ Lightning and Power Systems (2016 - Bologna, Italy)

<http://c4.cigre.org/Events/Cigre-Events2>

Proposal for CIGRÉ C4 International Colloquium 2017

- ▶ Venue: Ljubljana, Slovenia
 - ▶ vicinity of an airport (<http://www.lju-airport.si/>)
 - ▶ Faculty of Electrical Engineering in Ljubljana (<http://www.fe.uni-lj.si/en/>)
 - ▶ wide range of accommodation options
 - ▶ no need for special logistics
- ▶ Date: 18th to 20th September 2017
 - ▶ Welcome Party: 17th September 2017 evening
 - ▶ Closing: 20th September 2017 at 1.00 pm
- ▶ Title: Lightning and Power System Resilience Colloquium
- ▶ Organised by: Slovenian CIGRÉ NC (<http://www.cigre-cired.si/>) together with the Electric Power Research Institute of Ljubljana (<http://www.eimv.si/eng/>)
- ▶ Recommended by: TC in June 2016 during C4 Colloquium Bologna, Italy



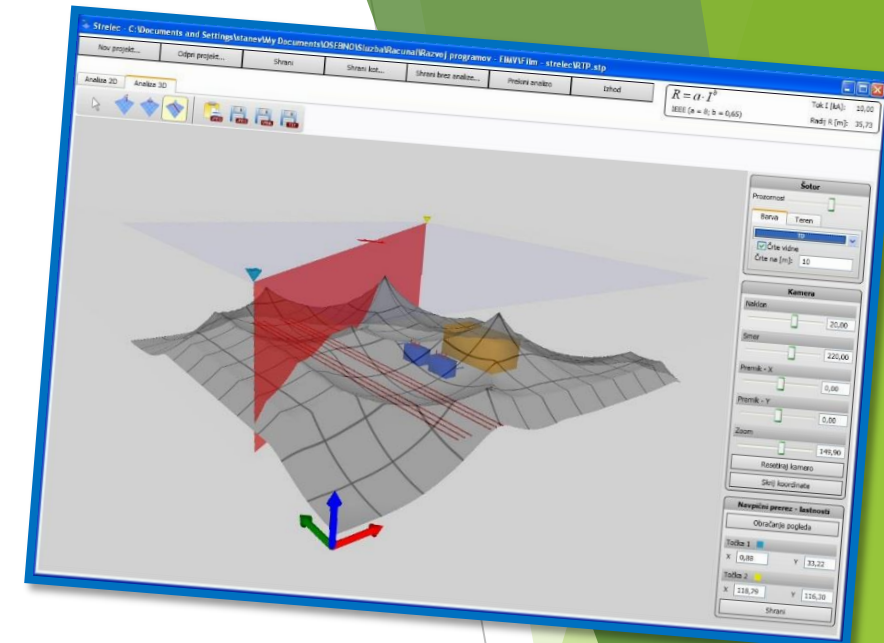
Past experience...

- ▶ THE FIRST REGIONAL SEERC POWER CONFERENCE (2016 - Portoroz, Slovenia)
- ▶ 18th IEEE International Conference on Dielectric Liquids (2014 - Bled, Slovenia)
- ▶ 15th International Symposium on High Voltage Engineering (2007 - Ljubljana, Slovenia)



Draft Proposal of Some Preferential Subjects

- ▶ Exploitation of data provided by lightning location systems (LLS); reporting and/or survey on authentic experiences, including correlation with otherwise obtained data
- ▶ Principles of lightning location, limitations and performance of existing systems
- ▶ State-of-the art of LL methods and systems related to its applicability in case of power system emergency and restoration
- ▶ Insight in lightning phenomena jeopardizing latest ICT system's reliability
- ▶ Numerical simulations in lightning related studies, including lightning shielding and overvoltage protections
 - ▶ Induced lightning
 - ▶ Statistical simulations
 - ▶ Electromagnetic field calculation
- ▶ Arrester applications, monitoring and field experience
- ▶ Protection on underground and submarine cables against lightning
- ▶ Electrical tower grounding
- ▶ Direct measurement of lightning currents using instrumented tall structures
- ▶ Improvement of the protection of overhead lines and substation equipment against lightning and other transient phenomena
- ▶ PQ monitoring and lightning



Venue: Ljubljana, Slovenia



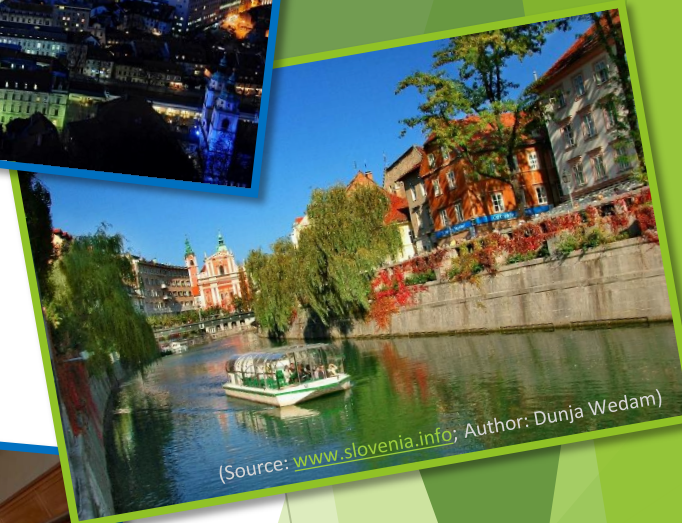
Ljubljana is the capital of Slovenia.

Easy accessible by car from ...

- ▶ Zagreb (1:45 h)
- ▶ Venice (2:30 h)
- ▶ Vienna (3:45 h)
- ▶ Munich (4:30 h)
- ▶ Milan (4:55 h)

or by plain from ...

- ▶ Barcelona (3:35 h)
- ▶ Paris (1:55 h)
- ▶ London (2:05 h)
- ▶ Prague (1:10 h)
- ▶ Moscow (2:55 h)
- ▶ Istanbul (2:20 h)



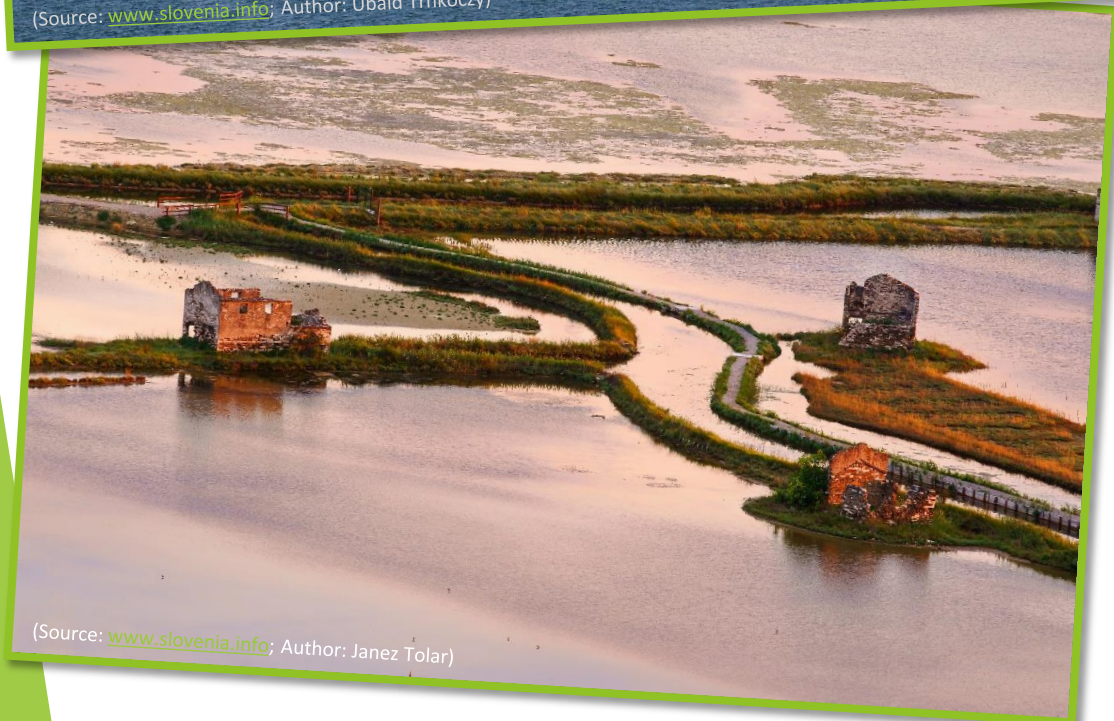




(Source: www.slovenia.info; Author: Ubald Trnkoczy)



(Source: www.slovenia.info; Author: Boris Pretnar)



(Source: www.slovenia.info; Author: Janez Tolar)



(Source: www.slovenia.info; Author: Boris Pretnar)

(Source: www.slovenia.info; Author: Ales Zdesar)



(Source: www.slovenia.info; Author: Ales Zdesar)



(Source: www.slovenia.info; Author: Tomo Jeseničnik)



